


		NTSB ID: DEN02LA088		Aircraft Registration Number: N238SP	
		Occurrence Date: 08/04/2002		Most Critical Injury: None	
		Occurrence Type: Accident		Investigated By: NTSB	
Location/Time					
Nearest City/Place Englewood	State CO	Zip Code 80112	Local Time 1140	Time Zone MDT	
Airport Proximity: On Airport		Distance From Landing Facility:		Direction From Airport:	
Aircraft Information Summary					
Aircraft Manufacturer Cessna		Model/Series 172S		Type of Aircraft Airplane	
Sightseeing Flight: No			Air Medical Transport Flight: No		
Narrative					
<p>Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:</p> <p>On August 4, 2002, approximately 1140 mountain daylight time, a Cessna 172S, N238SP, registered to EDB Air, Inc., and operated by Key Lime Flight School, both of Englewood, Colorado, was substantially damaged when it impacted terrain during a touch-and-go landing at Centennial Airport, Englewood, CO. The instructor pilot and commercial pilot receiving instruction were not injured. Visual meteorological conditions prevailed, and no flight plan had been filed for the instructional flight being conducted under Title 14 CFR Part 91. The local flight originated approximately 1030.</p> <p>According to the pilot receiving instruction, he was flying the airplane from the right seat. He made four touch-and-go landings. The fifth approach was normal, with a flap setting of 30 degrees, but the flare was too high and the airplane landed hard and bounced. He added full power and began to fly down the runway for a go-around. He said the instructor "adjusted the flap position and the airplane lost all lift and fell to the runway." The airplane slid across a grassy area and came to a halt on the taxiway. The nose landing gear was collapsed and the firewall was buckled. Both propeller blades were curled forward.</p> <p>The following weather observation was recorded shortly after the accident: wind, variable at 4 knots; visibility, 10 statute miles; temperature, 81 degrees Fahrenheit; dew point, 52 degrees Fahrenheit; altimeter, 30.25. The airport elevation was 5,883 ft. msl, and the calculated density altitude was 8,385 ft. msl.</p>					
FACTUAL REPORT - AVIATION					

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		Occurrence Date: 08/04/2002			
		Occurrence Type: Accident			
Landing Facility/Approach Information					
Airport Name CENTENNIAL	Airport ID: APA	Airport Elevation 5883 Ft. MSL	Runway Used 17R	Runway Length 10002	Runway Width 100
Runway Surface Type: Asphalt					
Runway Surface Condition: Dry					
Type Instrument Approach: NONE					
VFR Approach/Landing: Touch and Go					
Aircraft Information					
Aircraft Manufacturer Cessna		Model/Series 172S		Serial Number 172S8223	
Airworthiness Certificate(s): Normal					
Landing Gear Type: Tricycle					
Homebuilt Aircraft? No	Number of Seats: 4	Certified Max Gross Wt. 2550 LBS	Number of Engines: 1		
Engine Type: Reciprocating	Engine Manufacturer: Lycoming	Model/Series: IO-360	Rated Power: 180 HP		
- Aircraft Inspection Information					
Type of Last Inspection 100 Hour	Date of Last Inspection 06/2002	Time Since Last Inspection 66.4 Hours	Airframe Total Time 602.9 Hours		
- Emergency Locator Transmitter (ELT) Information					
ELT Installed? Yes	ELT Operated? No	ELT Aided in Locating Accident Site? No			
Owner/Operator Information					
Registered Aircraft Owner EDB Air Inc.		Street Address 7625 S. Peoria St.			
		City Englewood	State CO	Zip Code 80112	
Operator of Aircraft Key Lime Flights		Street Address 7355 S. Peoria St.			
		City Englewood	State CO	Zip Code 80112	
Operator Does Business As:			Operator Designator Code:		
- Type of U.S. Certificate(s) Held: None					
Air Carrier Operating Certificate(s):					
Operating Certificate:			Operator Certificate:		
Regulation Flight Conducted Under: Part 91: General Aviation					
Type of Flight Operation Conducted: Instructional					
<div style="display: flex; justify-content: space-between;"> FACTUAL REPORT - AVIATION Page 2 </div>					


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First Pilot Information																																																																																				
Name		City		State	Date of Birth	Age																																																																														
On File		On File		On File	On File	36																																																																														
Sex: M	Seat Occupied: Left	Principal Profession: Police		Certificate Number: On File																																																																																
Certificate(s): Flight Instructor; Commercial																																																																																				
Airplane Rating(s): Multi-engine Land; Single-engine Land																																																																																				
Rotorcraft/Glider/LTA: None																																																																																				
Instrument Rating(s): Airplane																																																																																				
Instructor Rating(s): Airplane Single-engine; Instrument Airplane																																																																																				
Type Rating/Endorsement for Accident/Incident Aircraft? No				Current Biennial Flight Review? 08/2001																																																																																
Medical Cert.: Class 1		Medical Cert. Status: Valid Medical--no waivers/lim.		Date of Last Medical Exam: 04/2002																																																																																
<table border="1"> <tr> <th rowspan="2">- Flight Time Matrix</th> <th rowspan="2">All A/C</th> <th rowspan="2">This Make and Model</th> <th rowspan="2">Airplane Single Engine</th> <th rowspan="2">Airplane Multi-Engine</th> <th rowspan="2">Night</th> <th colspan="2">Instrument</th> <th rowspan="2">Rotorcraft</th> <th rowspan="2">Glider</th> <th rowspan="2">Lighter Than Air</th> </tr> <tr> <th>Actual</th> <th>Simulated</th> </tr> <tr> <td>Total Time</td> <td>466</td> <td>347</td> <td>447</td> <td>19</td> <td>51</td> <td>5</td> <td>74</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Pilot In Command(PIC)</td> <td>388</td> <td>310</td> <td>410</td> <td>12</td> <td>45</td> <td>5</td> <td>74</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Instructor</td> <td>67</td> <td>67</td> <td>67</td> <td></td> <td>10</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 90 Days</td> <td>41</td> <td>30</td> <td>30</td> <td></td> <td>3</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 30 Days</td> <td>15</td> <td>15</td> <td>15</td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 24 Hours</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Multi-Engine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air	Actual	Simulated	Total Time	466	347	447	19	51	5	74				Pilot In Command(PIC)	388	310	410	12	45	5	74				Instructor	67	67	67		10		30				Last 90 Days	41	30	30		3		2				Last 30 Days	15	15	15		3						Last 24 Hours										
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Seatbelt Used? Yes		Shoulder Harness Used? Yes		Toxicology Performed? No		Second Pilot? Yes																																																																														
Flight Plan/Itinerary																																																																																				
Type of Flight Plan Filed: None																																																																																				
Departure Point		State	Airport Identifier	Departure Time	Time Zone																																																																															
Same as Accident/Incident Location			APA	1030	MDT																																																																															
Destination		State	Airport Identifier																																																																																	
Local Flight																																																																																				
Type of Clearance: None																																																																																				
Type of Airspace: Class D																																																																																				
Weather Information																																																																																				
Source of Briefing: Unknown																																																																																				
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 National Transportation Safety Board FACTUAL REPORT AVIATION			NTSB ID: DEN02LA088		
			Occurrence Date: 08/04/2002		
			Occurrence Type: Accident		

Weather Information					
WOF ID	Observation Time	Time Zone	WOF Elevation	WOF Distance From Accident Site	Direction From Accident Site
KAPA	1153	MDT	5883 Ft. MSL	NM	Deg. Mag.
Sky/Lowest Cloud Condition: Few			75 Ft. AGL	Condition of Light: Day	
Lowest Ceiling: None			Ft. AGL	Visibility: 10 SM	Altimeter: 30.25 "Hg
Temperature: 27 °C		Dew Point: 11 °C	Wind Direction:		Density Altitude: 8385 Ft.
Wind Speed: 4		Gusts:	Weather Conditions at Accident Site: Visual Conditions		
Visibility (RVR): Ft.		Visibility (RVV) SM	Intensity of Precipitation:		
Restrictions to Visibility: None					
Type of Precipitation: None					

Accident Information					
Aircraft Damage: Substantial		Aircraft Fire: None		Aircraft Explosion: None	
Classification: U.S. Registered/U.S. Soil					
- Injury Summary Matrix	Fatal	Serious	Minor	None	TOTAL
First Pilot				1	1
Second Pilot					
Student Pilot					
Flight Instructor				1	1
Check Pilot					
Flight Engineer					
Cabin Attendants					
Other Crew					
Passengers					
- TOTAL ABOARD -				2	2
Other Ground					
- GRAND TOTAL -				2	2

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Administrative Information		
Investigator-In-Charge (IIC) Arnold W. Scott		
Additional Persons Participating in This Accident/Incident Investigation: Larry Rockhold FAA FSDO 26805 E. 68th Ave, #200 Denver, CO 80249		
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